

TERCEHIN, Bikolay Georgiyevich; KUPERSIMIDT, V.L.; EFROS, V.V.;
FESTRIAKOV, A.I., red.; EURHLINA, E.P., tekha.red.

[Handbeck for "Universel" DF-24, T-26, T-26M tractors]
Spravochnik po traktoram "Universel" DE-24, T-25M.
Noskva, Gos.isd-ve esl'khos.lit-ry, 1960. 215 p.

(MIRA 13:12)

(Tractors)

YEROKHIN, N.G.; MARTYNOV, D.I.; POLETAYEV, V.F.; EFROS, V.V.;
EMNIKOV, S.A.; PESTRYAKOV, A.I., red.; DEKEVA, V.H.,
tekhn. red.

[Plodernized T-28 row-crop tractors] Modernizirovannye propashnye traktory T-28. Moskva, Isd-vo sel'khoz. lit-ry,
zhurnalov i plakatov, 1961. 279 p. (MIRA 15:2)
(Tractors)

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#### YEROKHIN, N.M.

Work results of the Movosibirsk Inter-Province Conference on the Control of Malaria and Helminthiasis in autonomous republics, territories and provinces of the Urals, Siberia and the Far East. Med.paras.i paras.bol. no.4:379-381 J1-Ag 153. (MLRA 6:9)

(Malarial fever) (Worms, Intestinal and parasitic)

TEROLHIN, N.M.; SARINA, I.I.; BEZZUBOVA, V.P.

Spideniology of tick-borne encephalitis in Movosibirsk Province.

Med.paras. i paras.bol. 27 no.1:30-33 Je-F '98. (MIRA 11:4)

1. Is Hovosibirskoy oblastnoy sanitarno-epideniologicheskoy stantsi1
(glavnyy vrach K.V.Sunina, sav. parasitologicheskin otdelom H.M.

Terokhin)

(ENCEPHALITIS, epidemiology
tick-borne encephalitis (Bus))

 Confessors on the emiliantian of foot of Almbury Libratus of a
Conference on the eradication of feet of diphyllebothriasis in Movos:birsk Province. Med.paras.i paras.bel. 26 no.62754-755 H-D 157. (MIRA 13:4) (MOVOSIBIRSK PROVINCEWORMS, INTESTIMAL AND PARASITIC)

YEROKHIN, N.M.; GULYAYEV, I.A., agronom; RUSINOVA, R.D., nauchnyy

. ?-

Frunse Collective Farm in the Altai Territory is striving for higher standards of agriculture. Zemledelie 7 no.12:30-33 D 159. (MIEA 13:3)

1. Predsedatel kolkhoss imeni Frunse, Regor yevskogo rayona,
Altayskogo kraya (for Yerokhin). 2. Kolkhos im. Frunze,
Yegor yevskogo rayona; Altayskogo kraya (for Oulyayev). 3. Altayskiy
zonal'nyy nauchno-lebledevatel skiy institut sol'skogo khozyaystva
(for Rusinova).

(Altai Territory--Collective farme)

L 29600-66 EWP(m)/EWT(1)/T-2IJP(c) ACC NR: AP6013919 SOURCE CODE: UR/0207/66/000/002/0025/0029 AUTHOR: Yerokhin, H. S. (Novosibirsk); Moiseyev, S. B. (Novosibirsk) 43 ORG: none B TITLE: Some characteristics of problems in magnetohydrodynamic stability theory reducible to a differential equation in which the highest derivative has an arbitrary parameter SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 2, 1966, 25-29 TOPIC TAGS: magnetohydrodynamics, Laplace equation, Larmor radius, differential equation ABSTRACT: The authors study the asymptotic properties of solutions for a fourth order differential equation where the highest derivative has an arbitrary parameter. It is shown that similarity of asymptotic behavior is independent of the value of this parameter for values of the argument which give zero coefficients at the second derivative. The Laplace method is used in conjunction with the analytical properties of the solutions to study the problem for various values of the given parameter. It is shown that the solutions have convergent asymptotic properties to a certain degree for arbitrary values of this parameter. Specific applications of the proposed theory are considered with regard to the effect which a finite Larmor radius of the ions and

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ion-ion viscosity lue to longitudina useful discussions	l cumment. W	le thank G. M.	. Zaslavekily	and K. 4. Deg	deyev for their	
SUB CODE: 20/	SUBM DATE:	10Nov65/	ORIG REF	006/ OTH	REF: 004	
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Card 2/2 /						

YEROKHIN, F., inah.; BONDAREV, G., inzh.

Contactless BMB-3 magnetic regulator. Prom.Arm. 5 no.1:34-36 Ja
(MIRA 15:2)

(Armenia--Governors (Machinery)) (Milling machinery)

	R. (g.Chelyabins)						
Ā	itemna amplifier. (Television)	Radio no.	8:47 Ag rs (Blect	'60. ronics	))	(MIRA 13:9)	
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27-1220

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Rysina, T.N. and Yerokhin, R.A.

The distribution and excretion of plutonium in dogs at AUTHORS:

remote dates after its introduction TITLE:

Lebedinskiy, A.V. and Moskalev, Yu.I., eds. Biologicheskoye deystviye radiatsii i voprosy raspredeleniya radio-aktivnykh izotopov; sbornik rabot. Moscow, Gosatomizdat, SOURCE:

1961, 119-127

The aim of the experiment was to study the distribution and excretion of plutonium in dogs at remote dates after its introduction, to derive mathematical equations covering the behavior of plutonium in various organs and tissues and to assess the possibility of determining its total content from excretion data. run on dogs injected intravenously with Fu(NO<sub>3</sub>)<sub>4</sub> solution. To simulate chronic radiation sickness the dogs were injected 4 times at monthly intervals. The total dose of plutonium was 0.2 \mu c/kg of the

Card 1/4

28242 S/581/61/000/000/013/020 D299/D304

The distribution and excretion...

animal's weight. Plutonium distribution was studied 3, 6 and 11 months, and 3, 3.5 and 4 years after its introduction. Both exponential and power models were used for the mathematical description of the behavior of plutonium in the body, tissues and excreta, but the exponential method was found to conform best with the experimental findings. Mathematical calculation of the expressions was accomplished by the method of least squares. The distribution of plutonium in the body is shown in tabular and graphic form, broken down into skeleton, liver, spleen, muscles, lungs, kidneys and other organs, at the various stages of investigation. The distribution was as follows: skeleton 40%, liver 30%, muscles 2.4%, spleen 2.3%, lungs 0.45%, kidneys 0.36%. In all organs radioactivity decreased with time. In the spleen it dropped to 0.49% by the 600th day and in the kidneys to 0.12% by the 1000th day. Subsequently the plutonium content in these organs remained constant. The data from the excretion of plutonium is broken down into 2 periods: 1) 2nd-23rd day, 2) from the 23rd day onwards. For the first 3 weeks plutonium excretion with the stools was higher than excretion with the urine.

Card 2/4

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The distribution and excretion ...

At later stages excretion with the urine was 2-3 times that with the stools. The correlation between daily excretion with the stools  $(\overline{S})$  and excretion with the urine  $(\overline{U})$  is expressed as:

$$\overline{S}/\overline{U} = 2.84e^{-0.05L3t}$$
,  $2 \le t \le 23$ ,  $\overline{S}/\overline{U} = 0.867e^{-0.0021t}$ ,  $t > 23$ .

The correlation between the basic quantities of radioactive element in the skeleton and the liver remained invariable at 1.34. This justifies the attempt to find a constant governing the excretion of plutonium from the system. Coefficients of excretion (the excretained in the body) were calculated to assess the plutonium content in the body. The coefficient is presented graphically. Using the expressions for the coefficient:

 $K_{\text{excr}} = 0.206e^{-0.08t}, \quad 2 < t < 23,$   $K_{\text{excr}} = 0.0327e^{0.0031t}, \quad t > 23,$ 

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The distribution and excretion...

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the plutonium content in a dog can be assessed from the daily total of plutonium excretion. There are 4 figures, 3 tables and 10 references: 3 Soviet-bloc and 7 non-Soviet-bloc. The 4 most recent references to English-language publications read as follows: M. Liscko, W. Kisieleski, Amer. J. Pathol., 29, 305 (1953); J. Schubert, J. Lab. Clin. Med., 34, 313 (1949); B.J. Stover, D.R. Atherton, N. Keller, Rad. Research, 9, 188 (1958); B.J. Stover, D.R. Atherton, N. Keller, Rad. Research, 10, 130 (1958).

K

Card 4/4

Bit iii E

PPORO ....

8/742/62/000/000/002/021 1015/12:15

AUTHORS:

Rysina, T.N. and Yerokhin, R.A.

TITLE:

Distribution and excretion of plutonium at remote

periods after administration to dogs

SOURCE:

Plutoniy-239; raspredeleniye, biologicheskoye deystviye,

uskoreniye vyvedeniya. Ed. by A.V. Lebedinskiy and

Yu.I. Moskalev. Moscow, Medgiz, 1962, 12-18

The metabolism of plutonium in larger animals and in man has been insufficiently studied. Experiments were carried out on 15 adult dogs weighing 18-28 kg, with 4 i.v. injections of plutonium nitrate (pH, 2.0) at monthly intervals. The total dose was 0.2pm/kg b.w. Seven dogs were also subjected to a daily gamen-irradiation of lor during 5 months. The distribution of plutonium was studied within

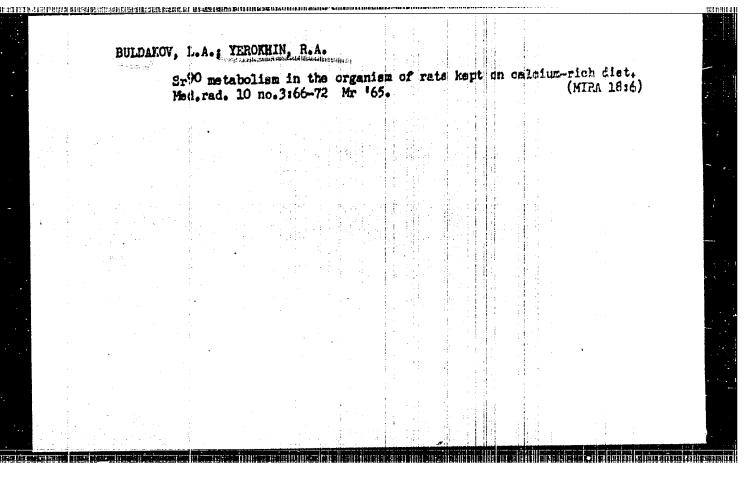
Card 1/2

**8/742/62/000/000/002/021 I**015/1215

Distribution and excretion of plutonium...

3-54 months. The plutonium excretion was examined continuously for 21 months. The determination of plutonium in tissues and excretions was performed by incineration with subsequent application of a carried and radiometric method. 73% of the injected plutonium was still present in the organism 3 months after administration - - 40% in the bones and about 30% in the liver. The excretion rate varied for the various organs. The effective half-life period for the bones was calculated to be equal to about 4000 years, whereas no regularity was found for the liver. The greatest excretion rate was found within the first 3-4 days (1.42-0.19%/24 hours). The quantities excreted by the kidneys were the same as those excreted in feces during the first 6 months, but one and a half to twice as much later on. Gamma-irradiation did not affect the distribution nor the excretion rate of plutonium in dogs. There are 1 figure and 4 tables.

Card 2/2



ACCESSION NR: AP5009202

AUTHOR: Buldakov, L. A.; Yerokiin, R. A.

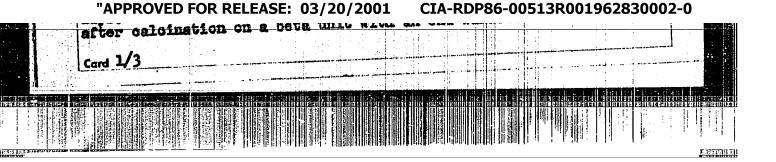
AUTHOR: Buldakov, L. A.; Yerokiin, R. A.

TIPLE: Strontium 90 metabolism in the organism of rate maintained on a calcium enriched dist

SOURCE: Meditsinskaya radiologiya, v. 10, no. 3, 1965, 66-72

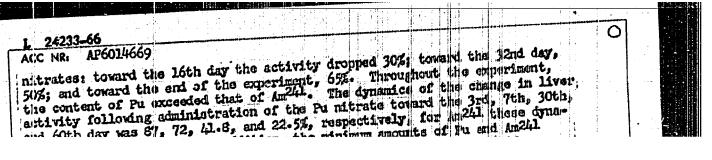
TOPIC TAGS: rat, strontium 90, calcium, food, radioantive isotope, metabolism

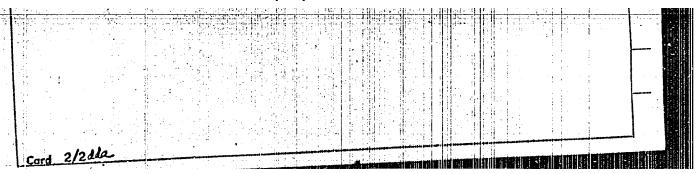
AESTRACT: A series of experiments was conducted on 229 male and AESTRACT: A series of experiments was



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AIC NR. AP6014669	SOURCE CODE: U	用/0241/65/010/010/0037	/(:041
AUTHOR: Yerokhin, R. A	Erokhin, R. A.; Kosh <u>winikova, N</u>	A Teangvoldy, I. A.	.+71-
NG: none			61
TITLE: Gamma-spectrometri	c intravital determination of P	a in the living organia	B
	liologiya, v. 10, no. 10, 1965,		
hotomultiplier, AI-100 pu		tude, rat, liver/FEU-2	4
the direct intravital meas	an experimental determination of urement of Pu and Am241 in the ctrometer are presented. The pri	morning am but manna AP	
i the spectrometer used k	mere: a NaI(TI) scintillation cry th an FEU-24 photomultiplier and	mt.il 20 in thick	
aptitude analyzer. White	rate were given. intravenously	ble flat rule machanille.	
u in the form of the nitr mount of 5 microcyries ne	rate salt (Pu(ND3)) with a pH vo	Lud of 2.0, in the	
Am(NO3)3/ with a pH of 2. $u$ and $Am241$ contents of t	8, in the amount of 2.72 microcular he rat organism were measured in	ries per rat. The	
and sa kett se st incelas	ls of 1, 2, 4, 8, 16, 32, and 64 y in rate intratracheally poison	dalwis Ligno	
nd 1/2		08 - 74:7 - 994 - 073 - 584	





YEROKHIN, S

85-9-11/33

AUTHORS:

Semenov M., Correspondent of Kryl'ya Rodiny; Yerokhin S., Deputy Chief Arbiter of Competitions; Kuznetsov I., Chief Arbiter of Competitions; Grigorenko A., Chief Arbiter of Competitions

TITLE:

At the Places of the Beginning of Zonal Competitions (Na startakh zonal'nykh sorevnovaniy)

PRRIODICAL:

Kryl'ya Rodiny 1957, Mr 9, pp. 8-9 (USSR)

ABSTRACT:

A composite report on the zonal competitions of aircraft model builders of the aeroclubs of the Central, Volga, Siberia and Far Eastern competition zones, consisting of 4 letters from local correspondents of Kryl'ya Rodiny. The competitions were held for the selection of model—The competitions were held for the selection of model—builder teams destined to participate in the forthcoming builder teams destined to participate in the forthcoming All-Union competitions. Similar preparatory competitions were also organized in the Northern, Central-Black-Earth, were also organized in the Northern, Central-Black-Earth, North Caucasian and Ural zones. No reports from these last five zones appear in the present Nr 9 issue of Eryl'ya Rodiny. All four letters, written along the same pattern, give a succipct description of the organization of the competitions and cite the clubs and the individual sportsmen having shown best results. The

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Card 1/2

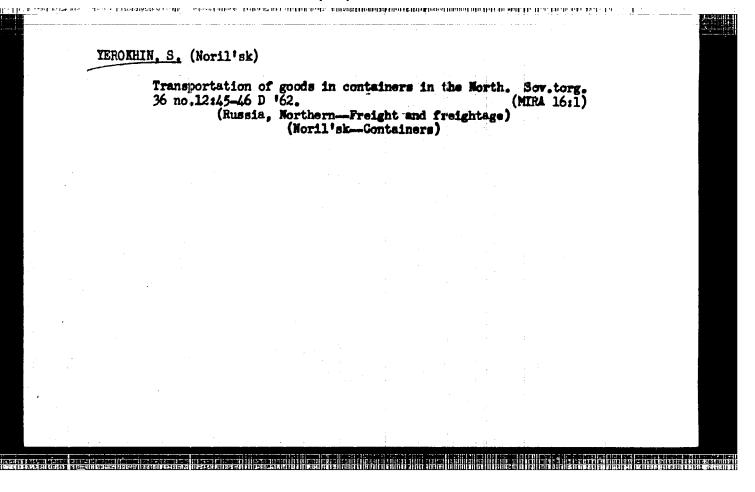
At the Places of The Beginning of Zonal Competitions (Cont.)

letter of M. Semenov, reporting from Silicatnaya (Moskovskaya Oblast') on the competitions held in the Central zone stresses the high quality of the 1957 showings of certain clubs and aeroclubs, and quotes figures. Other letters come from Khabarovsk (S. Yerokhin, Far Eastern zone), Novosibirsk (I. Kuznatsov, Siberia zone), and Saratov (A. Grigorenko, Volga zone). The article contains no information of scientific interest. 3 photos.

AVAILABLE: Library of Congress

Card 2/2

Y EROKH IN		
	On the Black Sea. Voen. snan. 25 no.6:2 Je	'59. (MIRA 12:12)
	1. Zaveduyushchiy voyenno-fizkul'turnym otdel obkoma Vsesoyuznogo Leninskogo kommunistiches molodezhi. (CzimeaNawal Giucation)	om Krymskogo skogo snyusa
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L 57538-65 EMI(d)/EMI(m)/EMP(c)/EMA(d)/EMP(v)/T/ EMP(t)/EMP(v)/EMP(h)/ EMP(b)/EMP(1)/EMA(c) PI-U JD/HW UR/0137/65/010/005/110115/11035 ACCESSION NR: AR5015178 37 SOURCE: Ref. sh. Metallurgiya, Abs. 50212 3 AUTHOR: Rozenfel'd, N. B.; Briov. F. M.; Maryatnikov. A. V.; Hogilavkia, F. D.; Kugayevskiy, N. V.; Karpenko, L. H.; Yerokhin, S. A.; Finkel'eiteyn, Xa. S. TITLE: Increasing accuracy in the production of this valled tokes in a type lik automatic appareitus Hetallunglyn, CITED SOURCE: (b. Prois-vo svers. 1 besshovs. try 1964, 84-88 TOPIC TACS: metal tube, metal boring, milling mechine, etalvorking mohime 114 automatic apparatus TRANSLATION: The article demonstrates the possibility of manufacturing tubes with diemeters of 76, 83, and 89 mm with a wall thickness of 3.25 mm under existing technology. A study was made of the influence of the form of the boxing instrument commonogy. A study was made of the influence of the form of the boring instrument on the accuracy of the wall thickness of rolled tubes, and the expediency of using an automatic mill bit with an "ovalization" of 0.04-1.05 is printed out. It is established that with a redistribution of the deformation between the first and second passages of an automatic mill (that is, with a decrease in the difference loss 1/2

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	ACCESSION IR: AR5015178	
	between the dismrters of the mentrols to 1 nm), the assurance of the tubes is increased. A. Lieut'yev.	
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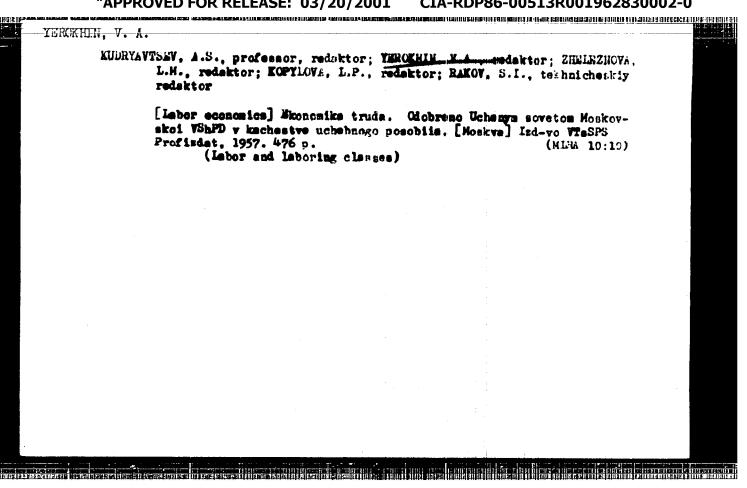
CHAFEK, A., kand. mod. nauk; YERCKHIN, V., mladshiy nauchnyy sotrudnik

The pilot in an emergency situation. Grazhd. av, 22 no.2:12-21

F '65.

(MIRA 18:5)

# Handling of the "Raketa-33" on the Oka Piver, Rech. transp. 21 no.6:44 Je '62. (MIRA 15:7) 1. Inshener-inspektor sudokhodnoy inspektsii Ryazanskogo uchastka. (Oka River-Planing balls)



### Recorditioning of used tires in the Sverdlovsk Automobile Tire Plant. Kauch.1 res. 22 no.4:44-49 Ap \*63. (MIRA 16:6)

1. Sverdlovskiy shinnyy savod.
(Sverdlovsk-Tires, Rubber-Repairing)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001962830002-0"

1. Sverdlovskiy shinny zavod. (Sverdlovsk.—Tires, Rubber)	KARAMEL	Experimental re-treading section of the Swerdlovsk Tire Factory.  Kauch. 1 rez. 20 no.6:38-40 Je '61. (MIRA 14:6)
	•	

Concernation Special Action	Device for the pressing on of sheet rubber in tire repair.  Kauch, 1 res. 22 no.6:48-49 Je 163. (NIRA 16:7)										
				shinnyy (Tires,							
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YEROXHIN, V.D.

AUTHOR: Yerokhin, V.D. 12-1-15/26

TITLE:

Boris Konstantinovich Manteyfel'

PERIODICAL:

Investiya Veesoyusnogo Geograficheskogo Obshchestva, 1958,

# 1, pp 79 - 80 (USSR)

ABSTRACT:

The article is a short biography of B.K. Manteyfel!

(1896 - 1957), a well known Soviet archeologist and phenologist, who resided at Novgorod.

AVAILABLE:

Library of Congress

Card 1/1

3(5)

SCV/12+91-2-19/21

**AUTHOR:** 

Yerokhin, V.D. Morzhov, B.A.

TITLE:

The Inspection of the Society's Branches and De-

partments

PERIODICAL:

Izvestiya Vsesoyuznogo geograficheskogo obshchestva, 1959, Nr 2, pp 201 - 202 (USSR)

ABSTRACT:

The authors inform the readers that inspections of the following branches of the Society were carried out during the months of May and June 1958: Buryat; East Siberian; Krasnoyarsk; Novosibirsk; Omsk; Tyumen (by inspector V.D. Yerokhin); Yaroslavl'; Gork'iy; Kazan'; Mari (by inspector B.A. Morzhov); Kuybyshev; Saratov; Stalingrad (by inspector M.I. Lopatin). All these branches, except the Mari, increased their activities. But a number of defects creased their activities. But a number of defects were also pointed out, namely the lack of cooperation

with the staffs of the scientific bodies and the absence of the records of proceedings, etc.

Card 1/1

<i>:</i> .	MELAMOT, D.L., kand.tekhn.nauk; MEROKHIN, V.D., insh.  Using hydraulic fill methods on one side only in building the dam of a reservoir. Transp. stroi. 11 no.1:18-20 Ja '61.											
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AUTHOR: Erokhin, V.	I <b>-1-</b> 8/9
TITIE: The s-entropy of a Discrete Random Variable. (s-entropiya diskretnogo sluchaynogo ob ekta.)	
PERIODICAL: Teoriya veroyatnostey i yeye primeneniya, Vol.III, Nr.1, pp. 103-107. (USSR)	
ABSTRACT: Let & be a random variable which takes on (	
p <sub>1</sub> , p <sub>2</sub> ,, p <sub>n</sub> , ( <b>Z</b> p <sub>k</sub> =1); <b>E</b> denotes an random variable with	10ther
$q_k = P(\xi' = x_k) \geqslant 0, \sum_{k} q_k = 1$	•
and $P(3' \neq 5) \leq \varepsilon$ ,	$(W_{\varepsilon}^{1})$
or P(ξ' <b>≠ξ</b>  ξ')<ε	$(w_{\varepsilon}^2)$
Let $H_{\widetilde{W}_{\varepsilon}}(\xi) = \inf_{\xi' \in \widetilde{W}_{\varepsilon}} J(\xi, \xi'), (i = 1, 2),$	(Eq.1)
Card 1/3 where J is the amount of information about	5 contained

52-111-1-8/9

The e-entropy of a Discrete Random Variable.

in  $\xi$ . It is shown that  $H_{W_{\epsilon}}^{1}(\xi)$  and  $H_{W_{\epsilon}}^{2}(\xi)$  are

equal. The paper gives the precise formula for their common value  $H_{\epsilon}(\xi)$  as well as for distributions  $P_{\xi\xi}$ , for which the infimum in Eq.1 is attained:

$$H_{\varepsilon}(\xi) = \sum_{\mathbf{p_k} > 0} \mathbf{p_k} \log_{\mathbf{p_k}}^{1} - \left[ \mathbf{n}(\theta) - 1 \right] \theta \log_{\theta}^{1} - (1-\varepsilon)\log_{1-\varepsilon}^{1}$$
(Eq.11)

If rely is the probability matrix for the economic code (permissible probability distribution when the lower bound in Eq.1 is attained) then

$$r_{kl} = a_k q_l(k \neq 1), \quad r_{kk} = a_0 a_k q_k, \quad (Eq.13)$$

Card 2/3 where  $0 \leftarrow p_1$ , and  $a_0, a_1, \dots, a_n$  are positive numbers such that  $a_k = \text{const} = 0$  if

52-III-1-8/9

The E-entropy of a Discrete Random Variable.

 $q_k > 0;$   $\alpha_k = p_k \text{ if } q_k = 0;$ 

 $q_0\theta = s - m\theta + \theta$ ,  $s = \sum_{q_k > 0} p_k$ ;  $q_k = (p_k - \theta)/(s - m\theta)$ 

if only  $q_k > 0$ . (§ has n possible values, § has  $m \le n$  possible values). There is 1 Soviet reference.

SUBMITTED: November 18, 1957.

AVAILABLE: Library of Congress.

1. Probability (Statistics)-Applications 2. Matrix algebra

Card 3/3

SOV/42-13-6-8/33 Yerokhin, V. AUTHOR: The Connection Between Metric Dimension and Harmonic Capacity (Svyaz' mezhdu metricheskoy razmernost'yu i garmonicheskoy TITLE: yemkost'yu) PERIODICAL: Uspekhi matematicheskikh nauk, 1958, Vol 13, Nr 6, pp 81-88 (USSR) Let E be a subset of the R measurable according to Borel, let on(E) be the n-dimensional capacity of the set E; let ABSTRACT: g(Q,P) be the distance of the points Q and P; let  $\varphi(g)$  be a continuous, non-negative, non-decreasing function defined on 0 < 9 < 1; let m , be the metric (of the type of Caratheodory) outer measure defined with the aid of  $\varphi$ . Theorem: Let  $\varphi(g)$  satisfy the condition If for a Borel set E there holds  $m_{p}(E) > 0$ , then also  $c_{n}(E) > 0$ is valid. Theorem: Let  $\varphi(g)$  satisfy the conditions  $\lim \inf \varphi(\varsigma) \varsigma^{2-n} > 0$ Card 1/2

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**APPROVED FOR RELEASE: 03/20/2001** 

The Connection Between Metric Dimension and Harmonic 50V/42-15-6-8/33 Capacity

 $\lim_{\alpha \to 0} \inf \varphi(3) \log \frac{1}{2} > 0 \quad (n=2).$ 

If for a Borel set E the measure m<sub>s</sub>(E) is 6-finite (i.g. E can be covered by the sum of countably many B-sets of finite measure), then  $c_n(E) = 0$ . The conditions of the theorems are minimal. There are 5 references, 3 of which are Soviet, 1 German, and 1 Polish.

SUBMITTED: April 9, 1957

Card 2/2

20-120-4-1/67 Yerokhin, Y.D. AUTHOR: On Conformal Transformations of the Rings and on the Fundamental Base of the Space of the Functions Analytic in an Elementary TITLE: Neighborhood of an Arbitrary Continuum (O konformnykh preobrazovaniyakh kolets i ob osnovnom bazise prostranstva funktsiy, analiticheskikh v elementarnov okrestnosti proizvol'nogo kontinuuma) Doklady Akademii nauk SSSR, 1958, Vol 120, Nr 4, pp689-692 (USSR) Let G be a simply connected domain of the z-plane and let K PERIODICAL: be a bounded continuum in G. Let  $\mathbb{A}_{\mathbf{G}}^{\mathbf{K}}$  be the class of all ABSTRACT: functions f(z) analytic in G with the norm  $||f|| = \max f(z)$ . Generalizing the results of Faber [Ref 2,3] the author shows that there always exist a sequence of functions en(z) analytic in G and linearly independent which form a base in the space  $\mathbb{A}_{\mathbb{G}}^{\mathbb{K}}$ , whereby this base may be denoted as the "most effective one" inasmuch as the decomposition of an arbitrary function with respect to another base on E converges slower Card 1/2

CIA-RDP86-00513R001962830002-0"

**APPROVED FOR RELEASE: 03/20/2001** 

On Conformal Transformations of the Rings and on the 20-120-4-1/67 Fundamental Base of the Space of the Functions Analytic in an Elementary Neighborhood of an Arbitrary Continuum

than the decomposition with respect to the  $e_n(z)$ . From the polynomials

$$\sum_{k=0}^{n} a_k e_k(z) \qquad \text{an "asymptotically" minimum } \mathcal{E} - \text{net}$$

can be obtained for suitable n, n  $\ge \log \frac{1}{E}$  (in the compact class  $f(z) \in A_G^K$ ,  $|f(z)| \le M$  for arbitrary H > 0). There are several further related results (conformal mapping of twicely connected domains, determination of the base functions and of the coefficients of the expansions with respect to them.) There are 3 references, 2 of which are Soviet, and 1 German. January 27, 1958, by A.N. Kolmogorov, Academician January 11, 1958

PRESENTED: SUBMITTED:

1. Conformal mapping 2. Mathematics

Card 2/2

### "APPROVED FOR RELEASE: 03/20/2001 CIA

CIA-RDP86-00513R001962830002-0

20-120-5-5/67 Yerokhin W.D. AUTHOR: On the Asymptotic Behavior of the E-Entropy of Analytic TITLE: Functions (Ob asimptotike E-entropii analiticheskikh funktsiy) PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 120, Nr 5, pp 949-952 (USSR) Let K be a continuum different from one point and from the whole ABSTRACT: plane in the z-plane and let K be contained in the domain G. Let  $\mathbf{A}_{G}^{\mathbf{K}}(\mathbf{M})$  be the compactum consisting of all functions unique in G and analytic for which sup  $f(z) \leq K$  and the norm | I | Is testined  $||f|| = \max |f(z)|$ . Let further  $H_{\mathcal{E}}(P)$  denote the E-entropy of the compactum F. Kolmogorov [Ref 1] founds  $0 < C_1(K/G) < H_{\mathcal{E}}(A_G^K(K)) (\log_2 \frac{M}{\epsilon})^{-2} < C_2(K/G) < +\infty \text{. Further similar}$ results are due to Vitushkin [Ref 2]. The author generalizes the results of [Ref 2]8 Theorem: Let G be an elementary non degenerating neighborhood of the continuum K,  $\{D_q\}$  a sequence of domains limiting to K,  $G_q = D_q \cap G_1$   $R_q$  modul of the two times connected domains  $G_q$ Card 1/2

On the Asymptotic Behavior of the E-Entropy of Analytic 20-120-5-5/67 Punctions

经保险部分股票基础分享,这个全种的股票,有时的分配的工作的工作,并且Substitution domestions in contrastion of the contrast

(1 < R  $_q$   $\leq$  +00 ); if G is simply connected, then R  $_q$  = +00. Under these assumptions there holds

$$H_{\varepsilon}(A_{G}^{K}(M)) \approx C(K/G)(\log_{2}\frac{M}{\varepsilon})^{2}, \qquad \mathcal{T}(K/G) = \sum_{q} \frac{1}{\log_{2}R_{q}}.$$

The second theorem contains the asymptotic behavior of H<sub>E</sub> for n complex variables and polycylindrical G and K. A third theorem generalizes the result of Vitushkin for K product of circles. The proof of the first theorem is shortly given, it is based essentially on a somewhat earlier published function theoretical paper of the author [Ref 3]. There are 3 Soviet references.

PRESENTED: January 27, 1958, by A.N.Kolmogorov, Academician SUBMITTED: January 11, 1958

1. Mathematics

Card 2/2

AUTHOR:

Yerokhin, F.

On the Theory of Conformal and Quasi-Conformal Mapping of Multiply Connected Regions

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 6, pp 1155-1157 (USSR)

ABSTRACT: Theorem 1: Let D be a schlicht n-fold connected region of the compact z-plane. Let  $\zeta = f(z)$  be a schlicht conformal mapping of D into the  $\zeta$ -plane. There always exist n conformal mappings  $\zeta_k = f_k(\zeta_{k-1})$  (k=1,2,...,n;  $\zeta_0=z$ ,  $\zeta_n=\zeta_0$ ) of pertain simply connected regions so that the initial mapping is a superposition:

(1)  $f(z) = f_n(f_{n-1}(...(f_1(z))...))$ .

Here the boundary continue  $C_1, C_2, \ldots, C_n$  of D can be ordered arbitrarily and it can be demanded that for every k the mapping  $f_k = f_k(f_{k-1})$  is conformal and schlicht in the simply connected region  $D_{k-1,k}$  which contains the region  $D_{k-1} = f_{k-1}(\ldots(f_1(D))\ldots)$  and is bounded by  $C_{k-1,k} = f_{k-1}(\ldots(f_1(C_k))\ldots)$ ,  $(C_{0,1} = C_1, D_0 = D)$ .

Then (1) is determined uniquely with the exception of brokenlinear intermediate substitutions.

Card 1/2

On the Theory of Conformal and Quasi-Conformal Mapping of Multiply Connected Regions

5017/20-127-6-2/51

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Theorem 2 generalizes an earlier theorem of the author [Ref 4]. The theorems 3 and 4 are conclusions of theorem 1 and enable to give a simple proof of a principle of Grötssch Ref 1 7. Theorem 5 generalizes theorem 1 to Q-quasi-conformal mappings. Theorem 6 is a conclusion of theorem 5. The author mentions M.A. Lavrent'yev, and I.N. Pesin.

There are 9 references, 8 of which are Soviet, and 1 German.

PRESENTED: April 29, 1959, by A.N.Kolmogorov, Academician

SUBMITTED: April 26, 1959

Card 2/2

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16(1)

AUTHOR:

Yerokhin, V.

SOY/20-128-1-6/58

TITLE:

On the Best Approximation of Analytic Functions by Rational Fractions With Free Poles

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 128, Nr 1, pp 29-32 (USSR)

ABSTRACT:

Let r>0, p>1;

 $||f(z)||_{r} = \sup_{|z| \le r} |f(z)|;$ 

 $\|f(z)\|_{p,r} = \left(\frac{1}{2\pi r} \int_{|z|=r}^{\infty} |f(z)|^p |dz|\right)^{1/p},$ 

 $||f(z)||_{p,r}^{1} = \left(\frac{1}{||f(z)||^{p}} \int_{|z| \le r} |f(z)|^{p} |dz|^{2}\right)^{1/p}.$  The class H p,r

is formed by the the functions f(z) analytic for |z| < r, for which  $||f(z)||_{p,g}$  for 0 < g < r is bounded. Let  $||f(z)||_{p,r}$  be the

Card 1/5

On the Best Approximation of Analytic Functions by Rational Fractions With Free Poles

80Y/20-128-1-6/58

unit sphere in  $H_{p,r}$ . Let analogously  $H_{p,r}$  be the space of the functions analytic in |z| < r for which  $||f(z)||_{p,r}$  are bounded;  $H_{p,r}^{'(1)}$  unit sphere in  $H_{p,r}^{'}$ . The index r will not be written for r = 1. Let  $\mathcal{R}_{n}^{(1)}$  be the class of the rational fractions  $H_{n}^{(2)}$ , the order of which is  $\leq r$  and the poles of which lie in |z| < 1. For  $|f(z)| \in H_{p}$ ,  $|f(z)| \in H_{p}^{'}$  let

$$\xi_{p,n}[f(z)] = \min_{R_n(z) \in \mathcal{R}_n^1} ||f(z) - R_n(z)||_p ; \quad \xi_{p,n}[f(z)] =$$

$$\lim_{\mathbb{R}_{n}(z)\in\mathcal{R}_{n}^{1}}\|f(z)-\mathbb{R}_{n}(z)\|_{p}^{1}; \quad \mathbf{t}[f(z)]=\lim_{n\to\infty}\left(\epsilon_{n}[f(z)]\right)^{1/n},$$

Card 2/5

9

On the Best Approximation of Analytic Functions by Rational Fractions With Free Poles

$$\mathcal{T}_{R} = \sup_{\mathbf{f}(z) \in A_{R}} \mathcal{T}[\mathbf{f}(z)] , \quad \mathcal{E}_{n,R} = \sup_{\mathbf{f}(z) \in H_{R}^{(1)}} \mathcal{E}_{n}[\mathbf{f}(z)] ,$$

$$\mathcal{T}_{R}^{\mu} = \frac{1}{\lim_{n \to \infty}} (\ell_{n,R})^{1/n} \quad \text{The magnitudes } \mathcal{T}_{p}[f(z)] , \quad \tilde{v}_{p,R} ,$$

$$\epsilon_{p,n,R}$$
,  $\tau_{p,R}$ ,  $\tau_{p}$ [ $f(z)$ ],  $\tau_{p,R}$ ,  $\epsilon_{p,n,R}$ ,  $\tau_{p,R}$ 

are formed analogously.  $A_R$  is the class of all functions analytic for  $|z| \le R$ , R > 1.

Theorem 1 : For all  $p \ge 1$  , R > 1 it is  $\mathcal{U}_R = \mathcal{T}_R^* = \mathcal{U}_{p,R} = \mathcal{U}_{p,R}$ 

$$=v_{p,R}^* - v_{p,R}^* - v_{p,R}^* - \frac{1}{R}$$
.

Card 3/5

On the Best Approximation of Analytic Functions by Rational Fractions With Free Poles

30V/20-128-1-6/58

Theorem 3: If  $f(z) \subset H_2$  (or  $H_2$ ), then all rational fractions of the best approximation of f(z) in the metric  $\| \varphi(z) \|_2$  (or  $\| \varphi(z) \|_2$ ) in the class  $\Re_n^1$  are given by the formula

(1) 
$$R_n(z) = f(z) - \frac{z B_n(z)}{2 \sqrt[n]{t}} \int_{|t| = \frac{1}{2}} \frac{f(t) dt}{(t-z) t B_n(t)}, |z| < \frac{1}{2}$$

where it is 
$$B_n(z) = \prod_{k=1}^n \frac{z-a_k}{1-\overline{a_k}^2}$$
 and  $\max_{1 \le k \le n} |a_k| < 9 < 1$ 

From theorem 6 there follows the existence of functions  $f(z) \in \mathbb{A}_{\mathbb{R}} \quad \text{for which it is} \quad \overline{\lim_{n \to \infty}} \left( \epsilon_n \left[ f(z) \right] \right)^{1/n} = \frac{1}{\mathbb{R}} \quad \text{(see A.G. Vitushkin } \left[ -\text{Ref 1} \right] \right).$ 

Card 4/5

16

On the Best Approximation of Analytic Functions by Rational Fractions With Free Poles

SOV/20-128-1-6/58

Theorem 7 : Let f(z) be analytic in  $r \leqslant |z| \leqslant R$  ,  $r \leqslant 1 \leqslant R$  . Then it rigorously holds :

 $\frac{\overline{\lim} \left( \min_{n \to \infty} \max_{R_n(z) \in \mathcal{R}_n} |f(z) - R_n(z)| \right)^{1/n} \leq \exp\left(-\frac{\ln R \cdot \ln \frac{1}{r}}{\ln \frac{R}{r}}\right)$ 

The author mentions K.I. Babenko.

There are 4 references, 3 of which are Soviet, and 1 American.

1 American.

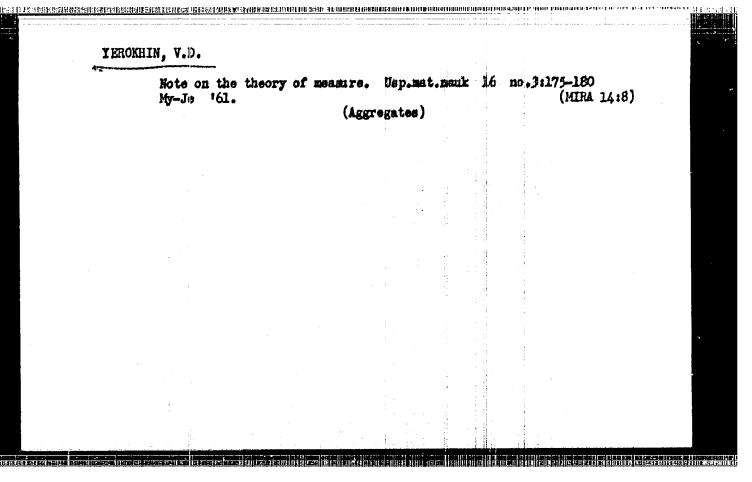
PRESENTED: May 14, 1959, by A.N. Kolmogorov, Academician

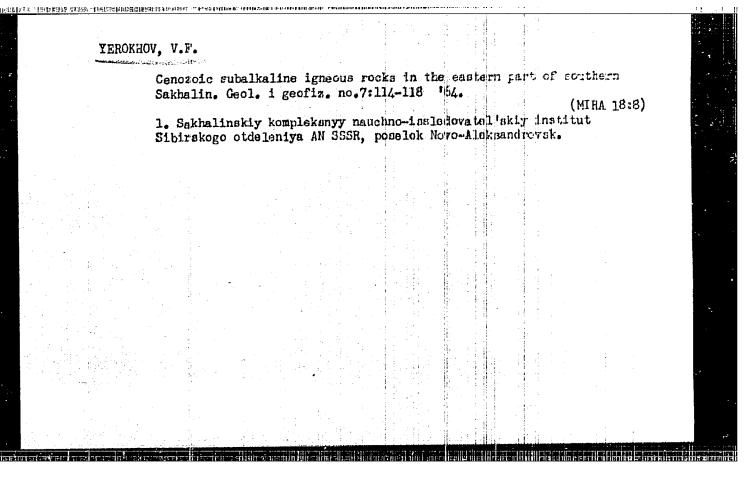
SUBMITTED: May 5, 1959

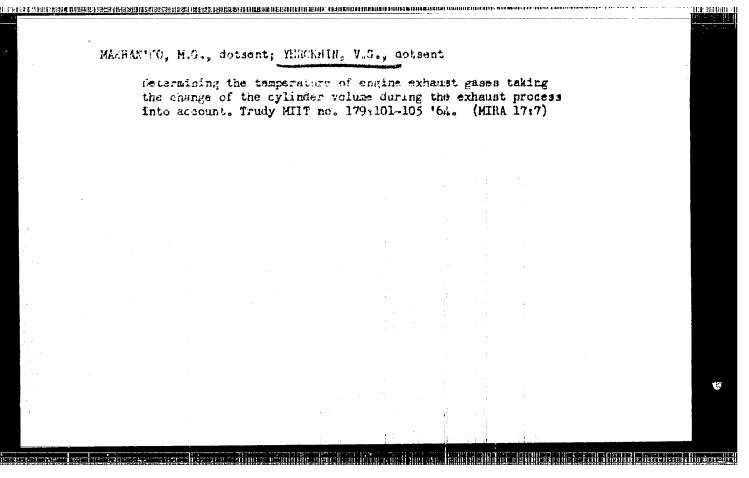
Card 5/5

YEROKHIN, V. D., CAND PHYS-MATH SCI, ON THE MAST LINEAR APPROXIBATION OF FUNCTIONS ANALYTICALLY EXTENDED FROM A GIVEN CONTINUUM INTO A GIVEN DOMAIN. YEREVAN, 1960. (YEREVAN STATE UNIV). (KL, 2-61, 199).

-11\_







(MIRA 11:11)

YEROKHIN, Viktor Georgiyevich,; KALININ, V.K., insh., red.; HOHROVA, Ye. N., tekhn. red. [Electric heating installations and their use] Blektromagrevatel nye ustanovki i ikh primenenie. Moskva, Gos. transp. shel-dor. izd-vo.

(Blectric heating)

1958 65 p.

# Excitation regulator for diesel-electric stations of drilling rigs. Mash. i neft. obor. no.7:23-29 '63. (MIRA 17:1) 1. TSentral'noye konstruktorskoye byuro "Elektroprivod" Vsesoyusnogo nauchno-issledovatel'skogo instituta elektromekkaniki.

YEROKH	فرساة ترجعتم اسباء والإنعاج وال	preservation of			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						:				
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GAVRILOV, N.I.; GRIGOR'YEVA, I.P.; AKIMOVA, L.N.; YEROKHIN, V.K. [deceased]

Certain properties of trityl peptides. Zhur. ob. khim. 31 no.3:739-742 Mr '61.

1. Hoskovskiy gosudarstvennyy universitet.

(Peptides)

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KABAKCHI, A. M., GRAMOLIN, V. A., and YEROKHIN, V. M.

"Several Facts Concerning the Effects of Ionizing Radiation on Concentrated Water Solutions of Inorganic Salts" p.51

Inol. Phys Chem. AS USSR

Trudy Transactions of the First Conference on Redicaction Chemistry, Moscow, Isd-vo AN SSSR, 1958. 330pp.
Conference -25-30 March 1957, Moscow

sov/76-32-9-31/46

AUTHORS:

Kabakchi, A. M., Gramolin. V. A. Yeroknin, V. M. (Hoscow)

TITLE:

The Effect of Ionizing Radiation on Aqueous Potassium Nitrate Eclutions (Deystviye ioniziruyushchikh izlucheniy na vodnyye rastvory azotnokislogo kaliya)

PERTODICAL:

Zhurnal fizicheskoy knimii, 1958, Vol 32, Nr 9, pp 2149-2154 (USSR)

ABSTRACT:

The authors investigated the effect of Y-radiation from Ce 60, \$\begin{align\*} \begin{align\*} \begin{align\*} \begin{align\*} \alpha & -radiation & \begin{align\*} \alpha & -radiation & \begin{align\*} \alpha & \begin{align\*} \alpha & \begin{align\*} \alpha & \begin{align\*} \alpha & -radiation & \begin{align\*} \begin{align\*} \alpha & \begin{align\*} \begin{align\*} \alpha & \begin{align\*} \alpha & \begin{align\*} \begin{align\*} \alpha & \begin{align\*} \alpha & \begin{align\*} \alpha & \begin{align\*} \alpha & \begin{align\*} \begin{align\*} \alpha & \begin{align\*} \begin{align\*} \alpha & \begin{align\*} \alpha & \begin{align\*} \alpha & \begin{align\*} \begin{align\*} \alpha & \begin{a

Card 1/2

The Effect of Ionizing Radiation on Aqueous Potassium Nitrate Solutions

V. E. Shevyrev.

There are 2 figures, 1 table, and 18 references, 9 of which

are Soviet.

ASSOCIATION:

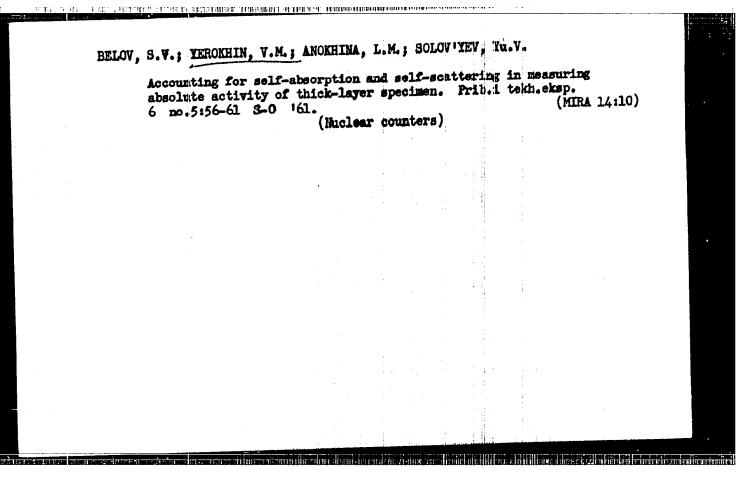
Akademiya nauk SSSR Institut fizicheskoy khimii (AS USSR, In-

stitute of Physical Chemistry)

SUBMITTED:

April 18, 1957

Card 2/2



YEROKHIN, Viktor Mikhaylovich, inzh.; LANIN, Gonnadiy Israilovich, inzh., red.

[C-521 bulldozer with hydraulic control; the flywars! Plant for Road Machinery and Building Equipment] Buldozer C-521 s gidravlicheskim upravleniem; Brianskii zuwod dor hrykh i stroitel nykh mashin. Moskva, Strok-izdat. 1964. 21 p. (MIRA 18:5)

1. Nachal'nik konstruktorskogo otdela navesnogo otorudovaniya Bryanskogo zavoda dorozhnykh i stroitel nykh mashin. (for Yerokhin). 2. Bryanskiy zavod dorozhnykh i stroitel'nykh mashin (for Ianin).

A COLUMN TO A COLU

SADOVNIKOVA, I.P.; YEROKHIN, V.N.; KRUGLYAK, S.A.; VERMEL, Ye.M.; EMANUEL, N.H.

Use of kinetic parameters in the evaluation of the antineoplastic activity of chemical compounds in an experiment. Vop.onk. 11 no.11:63-68 '65.

(MIRA 19:1)

1. Iz otdela khimicheskikh i biologicheskikh protsessov (zav. - chlen-korrespondent AN SSSR N.M.Emanuel\*) Instituta khimicheskoy fiziki AN SSSR (direktor - akademik N.N.Semenov).

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001962830002-0"

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# YEROKHIN, Ya. [IErokhin, IA.]

Collective farm canning factory. Sil'.bud. 13 no.10:7-8 0 '63.

(MIRA 17:3)

1. Nachal'nik otdela stroitel'stva Krymskogo oblastnogo upravleniva

1. Nachal'nik otdela stroitel'stva Krymskogo oblastnogo upravleniya proizvodstva i zagotovok sel'skokhozyastvennykh produktov.

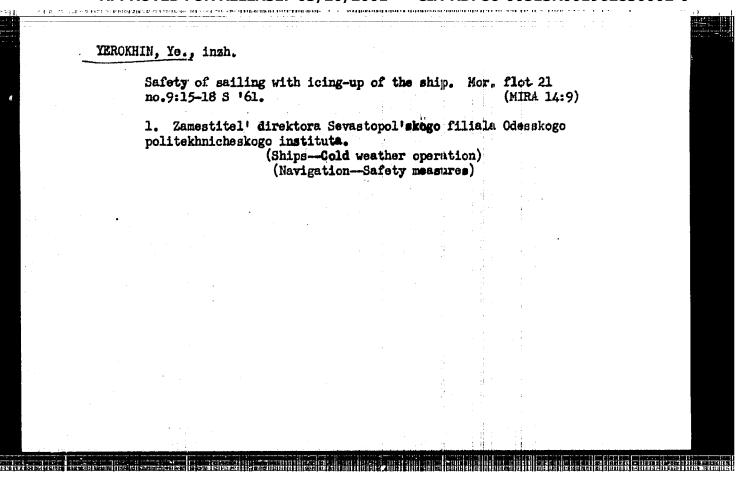
YENORIL - N., Ye. V.

FOMIH, A.I., inshener; Thousand, Ta.V., instruktor peredovykh metodov truda, (Moskva).

Development of the method for artificial seasoning of lumber in petrolatum. Stroi.pred.mert.prom. 1 no.10:24-26 D '56.

(MURA 10:2)

(Lumber--Drying) (Petrolatum)



28 (2) AUTHORS:

DEFFICE BY AN EXPENDED AND DEFENDABLE DESCRIPTION OF THE OWNERS OF THE FOR DEFENDABLE DEFENDED FOR DEFENDABLE DEFE

Vitenberg, I. M., Candidate of Telchnical 507/119-59-6-1/18

Sciences, Yerokhin, Ye. A., Engineer

TITLE:

Group Systems of Automatic Control and Zero Adjustment in Direct Current Amplifiers of Electric Models (Gruppovyye sistemy avtomaticheskogo kontrolya i nastrojki nuley usiliteley

postoyannogo toka elektricheskikh modeley)

PERIODICAL:

Priborostroyeniye, 1959, Nr 6, pp 1 - 4 (USSR)

ABSTRACT:

The present paper deals with circuit diagrams for the zero adjustment of multitubular direct current amplifiers which carry out linear mathematical operations by feedback, requiring mean or low accuracy. A distinction is made between manual and automatic zero adjustment. The latter may be a single- or group adjustment. A middle course is the automatic control with subsequent manual zero adjustment. The principle of the zero adjustment control by groups is based on the consecutive measurement of the zero drift voltages by means of a zero element. Since the zero drift voltage in direct current amplifiers varies but slowly, such a method is acceptable for models of mean accuracy. In all known systems the zero adjustment control is carried out with mechanical commutators by means of step for step switch-

Card 1/3

Group Systems of Automatic Control and Zero Adjustment S07/119-59-6-1/18 in Direct Current Amplifiers of Electric Models

es. Constructions are shown for an exemplification, which were worked out in the electromodel department of the NIISchetkash (Nauchno-issledovatel'skiy institut schetnykh mashin - Scientific Research Institute of Computers). Figure 1 shows the circuit diagram of the electromechanical system of the automatic zero adjustment in the electric models MN-2 and MN-3. The amplifiers are subdivided in groups of 25 each. The zero adjustment is brought about by the motion of the sliding contact of a potentiometer; this motion is released by a relay of the zero element. Figure 2 shows the circuit diagram of an electronic system, as is applied in the model MN-9. A similar system has been applied in the model MN-11. The step for step compensation of the zero drift voltage occurs by a change in potential on the second grid of the tube over a condenser. When using amplifying tubes with a good zero stability, the zero adjustment for the solution of problems which do not require great accuracy, may take place within longer periods of time. The automatic control of the zero adjustment with subsequent manual control is then recommended. Figure 5 shows such a control circuit for electric models with 300 - 400 amplifying tubes. S. V. Petrakov

Card 2/3

Group Systems of Automatic Control and Zero Adjustment SOV/119-59-6-1/18 in Direct Current Amplifiers of Electric Models

and V. M. Gerkhanova development in the elaboration and testing of this system. The system exhibits two zero elements, the first of which controls the zero drift, and the second serves for the zero adjustment. There are 6 figures and 1 table.

ASSOCIATION: Nauchno-issledovatel'skiy institut schetnykh mashin (Scientific Research Institute of Computers)

Card 3/3

9,7200

1132, 1538, 1327, 1013

28200 S/194/61/000/005/017/078 D201/D503

24 4100 AUTHORS:

Vitenberg, I.M. and Yerokhin, Ye.A.

TITLE:

The use of electrical analogues for solving boun-

dary problems

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 5, 1961, 17, abstract 5 Bll3 (Tr. 1-y Mezhvuz nauchno-tekhn. Konferentsii po elektr. modelirovaniya zadach stroit. mekhan., soprotivleniya materialov i teorii uprugosti. B.m. Novocherk. politekhn. in-t 1960, 34-42)

TEXT: The formulation is considered of the boundary problem for a system of ordinary linear and non-linear differential equations and the effectiveness is noted of using electrical analogues, when solving the above problems by the search method. A short description of two methods of searching for a given solution is given: the method of minimization and the method of survey. The main feather the method of minimization and the method of survey.

Card 1/2

28200 S/194/61/000/005/017/078 D201/D303

The use of electrical analogues ...

tures are given of the electrical analogue MM-11 (MN-11) designed at the HMMCMETMANN (NIISCHETMASH) and having an automatic solution search system. The machine MN-11 can solve boundary problems as described by systems of ordinary differential equations up to the 6-9 order: it determines 6 unknowns with up to 6 boundary conditions, working periodically at frequencies from 1 to 100 kc/s. A model of MN-11 is stated to have solved, with an accuracy of 5-10%, the problem of a beam on an elastic base and the problem of cavingin of a spherical cover. The above problems have been set as boundary and described by systems of linear differential equations of the 4th order. The search for a solution was automatic and lasted 5 and 20 seconds respectively, with a periodicity of 20 c/s. 5 figures. 3 references. Abstracter's note: Complete translation.

Card 2/2

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001962830002-0"

39905 8/044/52/000/007/084/100 0111/0333

9,7000

Yerokhin, Ye. A.

AUTHOR: TITLE:

On the logical possibilities of the automatized electronic

model EN-11 (MH-11) when seeking the solution under

. TREAS POR ARTE FOR BUILDING THE BRIDGE BERNELD FOR EXPERIMENT OF THE CO.

complicated conditions

PERIODICAL: Referativnyy zhurnal, Matematika, no. 7, 1962, 70,

abstract 7V335. ("Vychisl. tekhnika", no. 2, M., Atomizdat,

1961, 73-87)

Many problems on the elasticity theory, on the technical aspects of air traffic of heating and others lead to either boundary value problems in which the initial conditions for the variables are partly not known, or to problems in which certain constant coefficients are unknown and the optimal relations between these coefficients are sought. The electrical analogue system (e.a.s.) MN-11 serves to automatically determine the solutions of problems described by linear or non-linear systems of differential equations of orders 6 to 9. The system can simultaneously determine up to six unknowns from six given conditions. The formulation of the problem: Given is the system of differential equations Card 1/4

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S/044/62/000/007/084/100
On the logical possibilities of the ... C111/C333

$$\frac{dx_{i}}{dt} = f_{i}(x_{1}, x_{2}, ..., x_{n}; a_{ij}; t)$$

$$i = 1, 2, ..., n; j = 1, 2, ..., m$$
(1)

and the system of equations

$$\varepsilon_{i}\left[x_{i}(t_{o}); x_{i}(t_{k})\right] = 0$$
 (2)

where in (1) a portion of the initial conditions  $x_i(0)$  and a portion of the coefficients  $a_{ij}$  are not known. The e.a.s. automatically determines the unknowns  $x_i(0)$  and  $a_{ij}$  and thereby the solution  $x_i(t)$  which satisfy (1) and (2). It is pointed out that the peculiarity of the e.a.s. MN-11 is the automization of the problem solving process. For this purpose the e.a.s. contains a logical network and works very fast; the manhine completes 100 problems solutions per second, a specifiwhich is attained by using an electronic control of the integrators. The solution is found by successive approximations with an automatic subestimate of the result after the i-th variation of the unknown and Card 2/4

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On the logical possibilities of the ... C111/C333 with control signals originating from this estimate before the (i+1) variation. The estimate consists of comparing the i-th solution to the (i-1)-th solution contained in the memory. The circuit diagram of the machine and the time run of its work are given. The machine consists of two principle parts; an electrical analogue network and a network of logical operations. The e.a.s. solves the system of differential equations in the integration intervals; here the conditions E are modelled in case they are complicated. The logical network receives from e.a.s. informations of the type  $x_i(t)$ ,  $\mathcal{E}_i(t)$ , conducts a number of logical operations and as a result the increments  $\Delta x_i(0)$  or  $\Delta x_i^2$  are introduced into the e.a.s. Then integration follows again (with different values of the unknowns). This process is continued until

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= 0, which corresponds to the problem solution. Single units of the machine are described, such as those concerned with the formation of the control signal, the automatic measurement of the Card 3/4

S/044/62/000/007/084/100 On the logical possibilities of the ... C111/C333

increments, the removal of false minima and the automatic adjustment of the level of the computor. There are 11 illustrations and the bibliography has 5 titles.

Abstracter's note: Complete translation.

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Card A/A

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001962830002-0"

ACC NR: AP7005612

SOURCE CODE:

UR/0413/67/000/002/0049/0050

INVENTOR: Yerokhin, Yu. A.; Kanonykhin, N. M.

ORG: None

TITLE: A simulative monitor for checking the accuracy of distance measurements made by pulse-type radio range finders. Class 21, No. 190437 [announced by the Military "Order of Lenin" and "Order of Suvorov" Military Academy (Voyennaya inzhenernaya ordenov Lenina i Suvorova akademiya)] 🚾

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 2, 1967, 49-50

TOPIC TAGS: pulse signal, radio rangefinder, electronic measurement, instrument calibration equipment

ABSTRACT: This Author's Certificate introduces: 1. A simulative monitor for checking the accuracy of distance measurements made by pulse-type radio range finders. The installation contains a master oscillator with frequency divider, a course imitator of the analog type, a unit which gives a reference distance and devices for detecting and locating unit failures. In order to use the installation for monitoring precision radio range finders, the outputs of the frequency divider in the master oscillator are connected to the inputs of the course imitator and reference distance unit and to one input of a coincidence circuit with its second input connected to the output of the course imitator. 2. A modification of this monitor in which information on unit fail-

Card 1/3

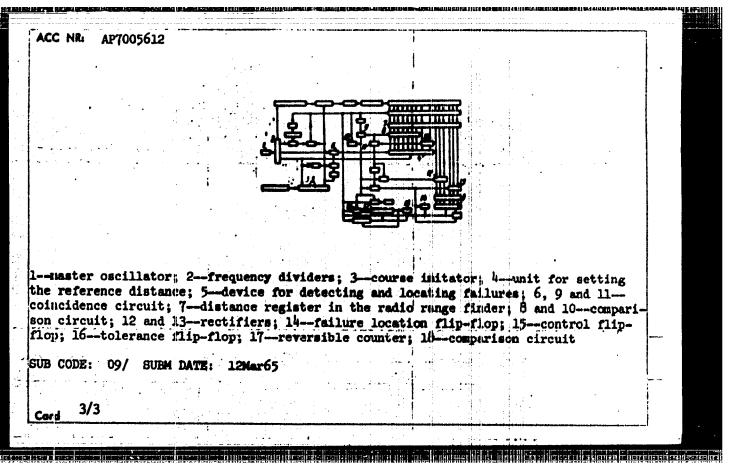
UDC: 621.396.969.11

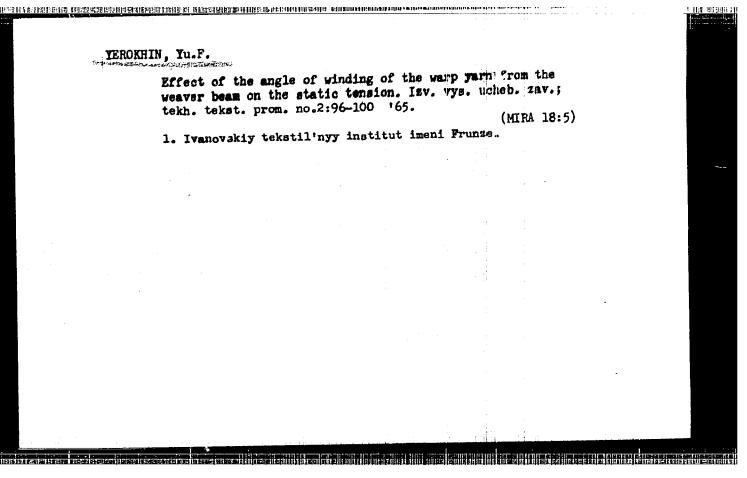
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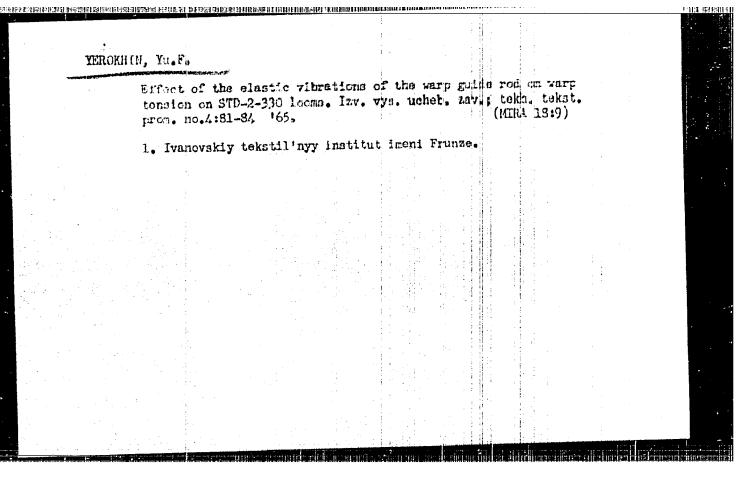
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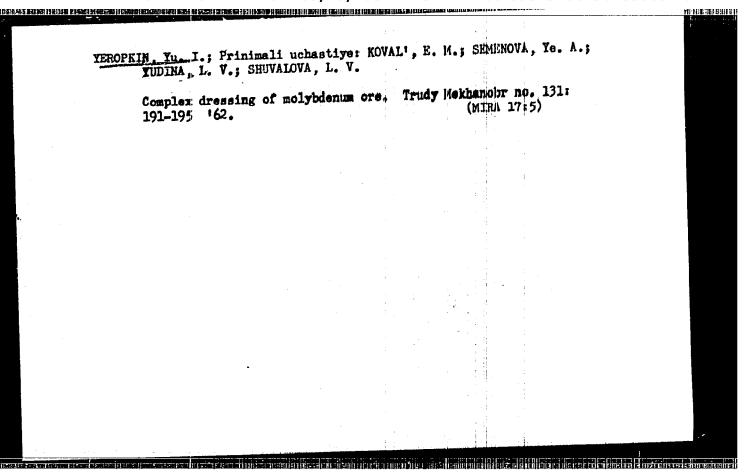
ures is produced by connecting the outputs of the most significant digits in the reference distance counter and distance register of the radio range finder to a comparison circuit. This comparison circuit is connected to a rectifier and the second input of the rectifier is connected to a coincidence circuit while the output is connected to a flip-flop for locating the failure. 3. A simplified modification of this monitor in which the outputs for the least significant digit in the reference distance counter and the intermediate digit in the distance register of the radio range finder are connected to a comparison circuit. This comparison circuit is connected to a coincidence circuit with its second input connected to the output of a circuit for comparing the most significant digits of the distance register in the range finder and the reference distance counter. The outputs of the coincidence circuit are connected through rectifiers to an error counter. 4. A modification of this monitor designed for tolerance control of the radio range finder. The outputs of the "add" flip-flop and counter are connected to the coincidence circuit output which generates a pulse for comparison of the reference distance with that given by the instrument. The input of the "subtract" control flip-flop and the input of the reference distance counter are connected to the output of a rectifier controlled by the discuit for comparison of the most significant digits in the reference distance counter and the distance register of the radio range finder. The outputs of these counters are connected to the tolerance flip-flop.

Card 2/3









KRASHOVSKIY, A.A.; YEROKHIM, Yu.Ye.; FEDOROVICH, I.B.

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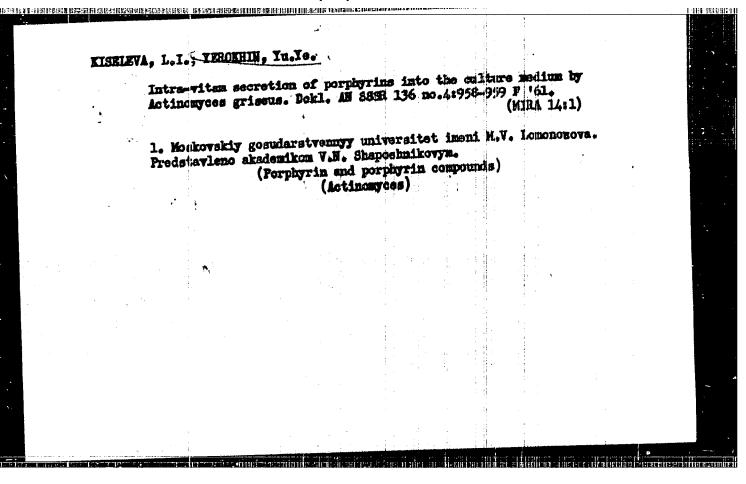
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YEROKHIN, YU. YE., KRASNOVSKY, A. A., PAKSHINA, YE. V., UMREKHINA, A. V., BRIH, G. P., VOROBYEVA, L. M., DROZDOVA, N. N. (USSR)

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Report presented at the 5th International Biochemistry Congress, Moscow, 10-16 August 1961

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KRASHOVSKIY, A.A.; YEROKHIN, Yu.Ye.; KHUN YUK-TSYUN\* [Hung Ik-ch'in]

Finorescence of aggregated forms of bacteriochlorophyll, bacterioviridin, and chlorophyll in commection with the state of
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akademikom A.N.Tereminya.

(FILORESCENCE)
(PICMENYS)
(BACTERIA, AUTOTROPHIC)

इंकिन्न विभिन्नेत्रिक्षिक्तिन्त्रे एक्ट राष्ट्रिक विभाव १८०४ वास्ताव १८०४ वास्ताव वास्ताव

BALITSKAYA, R.M.; YEROKHIN, Yu.Ye.

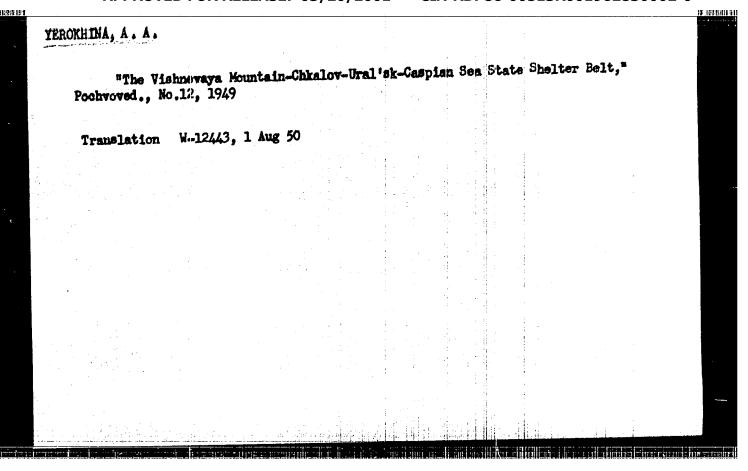
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Effect of temperature on the luminescence of backerioviridin and its state in photosynthetizing bacteria. Dokl. AN SSSR 152 nc.5:1231-1234 0 '63. (MIRA 16:12)

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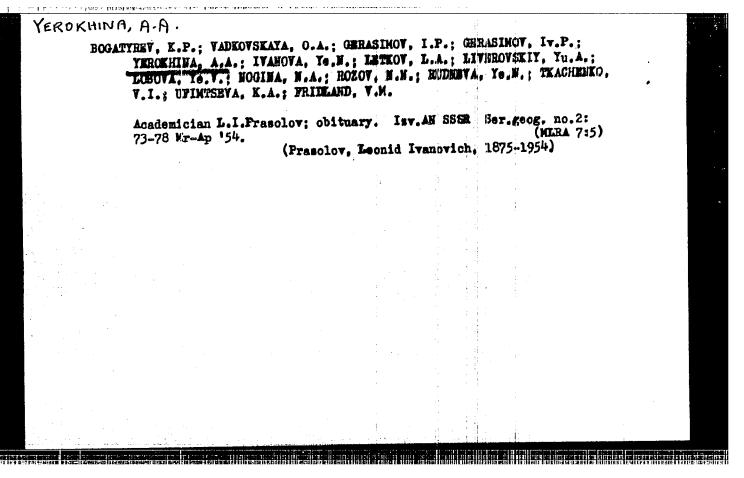


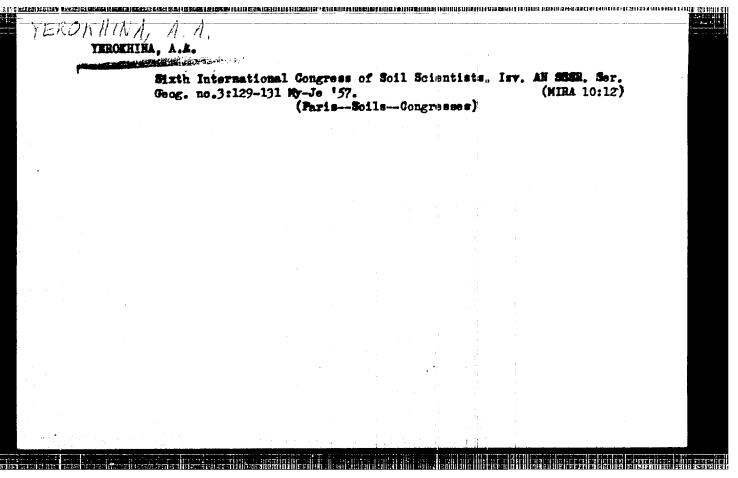
YEROKHINA, A.A.; NOSIN, V.A. (CAND. AGR. Sci.); NOGINA, N.A., ROZOV, N.N.: UFINTSEVA, K.A. FRIDLAND, V.M. and IVANOVA, Ye.N. (Prof., Dr. Agr. Sci).

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A Contribution to the Problem of the Soil Blanket of Inst

Title India.

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A survey of works on the soil blanket of India is presen-

ted on the basis of subject literature sources. The greatest expanse in the country is taken up by red earth Abstract soils occupying ~ 380 thousand square kilometers, laterites (including the lateritized red earths) occupying 90 thousand square kilometers the regur or chernozem soils

occupying ~ 3.8 thousand square killometers.

The bibliography has 10 listings.

Card 1/1

-8 -

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